



NATIONAL ENDOWMENT FOR THE

**Humanities**

# **Reconnecting the Humanities and Sciences through Preservation and Access**

**Mary Downs and Joel Wurl**

**March 13, 2014**



## Pages from the Voynich Manuscript

Named for Polish book/manuscript collector who purchased the codex in 1912

(Original manuscript housed at Yale's Beinecke Library)

Exploring the human endeavor

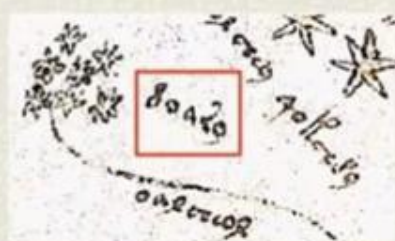
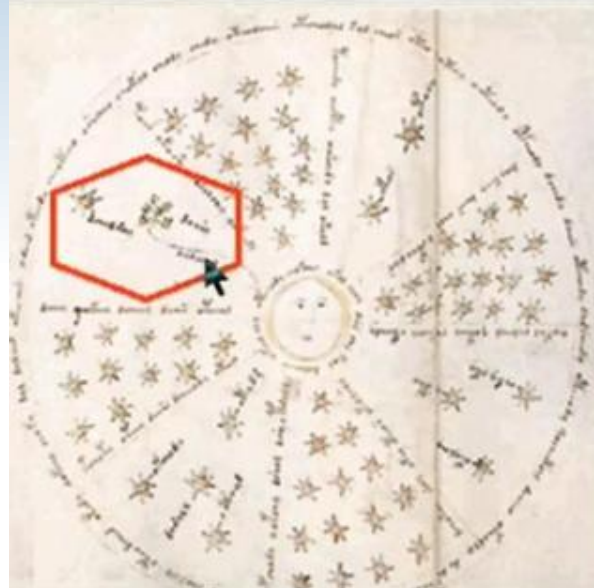


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**Humanities**





## 2. Taurus f68r



VM script	δ	ο	α	ρ	9
Possible sound	I	A	/a/	/i/ or /e/ plus vowel	N
Gloss and provenance	/i/	/a/	/a/ or /u/	/i/	Later



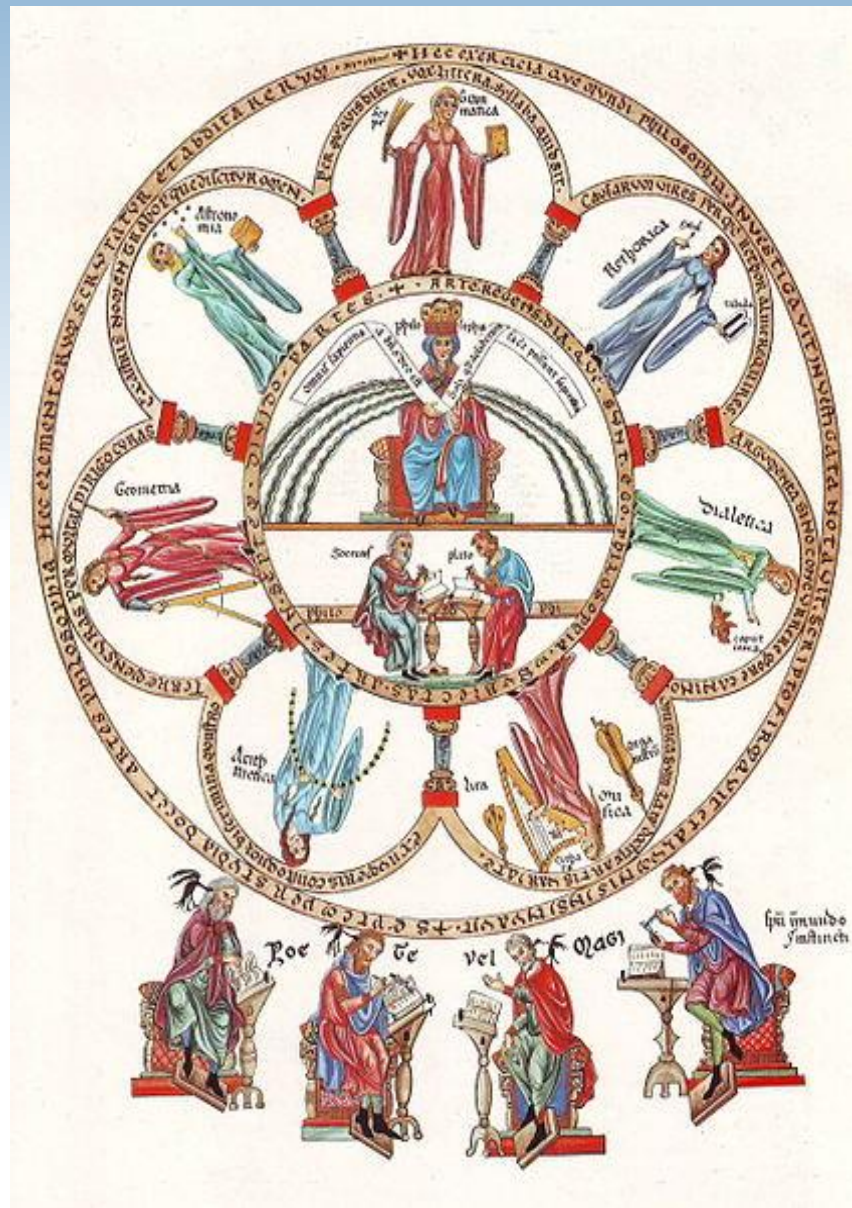


# The “Seven Liberal Arts” of the Middle Ages

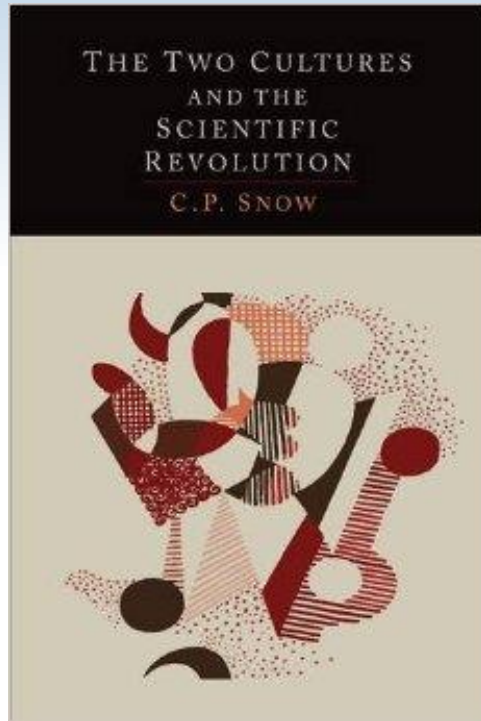
The *Trivium*:  
Grammar, Rhetoric, Logic

The *Quadrivium*:  
Arithmetic, Geometry, Music,  
and Astronomy

(illustration from the manuscript *Hortus  
Deliciarum*, Herrad von Landsberg, ca. 1180)

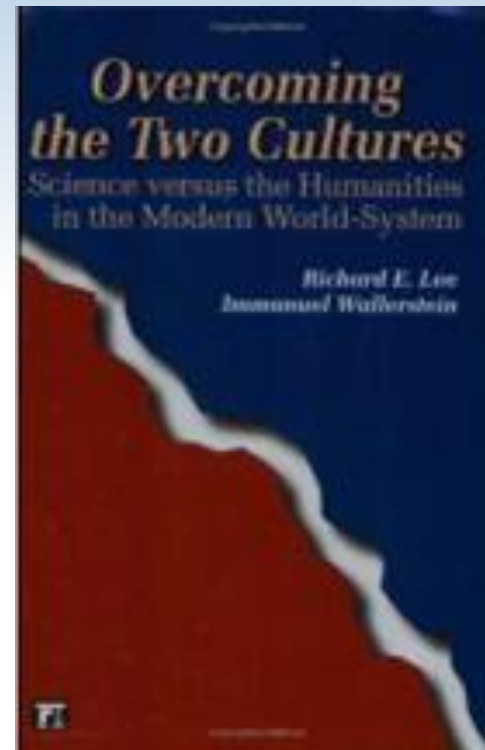


# The Humanities and Sciences in Modern Society - A Cultural Chasm?



## *The Two Cultures and the Scientific Revolution -*

1959 lecture and publication by British scientist and novelist C.P. Snow famously lamented the growing intellectual divide between sciences and the humanities.



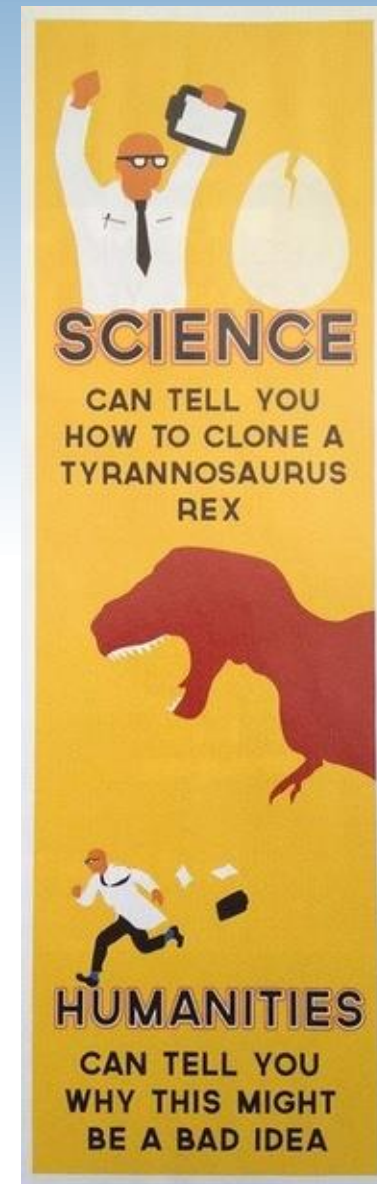
## **Overcoming the Two Cultures: Science versus the Humanities in the Modern World-System -**

2004 book by American sociologists Richard E. Lee and Immanuel Wallerstein explored the “divorce” between the humanities and sciences and prospects for reconciliation.



science  
↓↑  
humanities

*Not an either/or proposition....*



# “History of Science” Panels in HCRR

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- History of Technology
  - Industrial
  - Transportation
  - High Tech
- History of Medicine & Health
- History of Physical Sciences (e.g. Astronomy, Chemistry, & Physics)
- History of Natural Sciences (e.g. Biology, Botany, & Horticulture)
- History of the Environment



# Polio's consequences and wide reach in American society



# University of Cincinnati Albert B. Sabin Archives

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PW-50552-10



# University of Cincinnati Albert B. Sabin Archives



HENRY R. WINKLER CENTER for the  
**HISTORY of the HEALTH PROFESSIONS**

UC LIBRARIES | DONALD C. HARRISON HEALTH SCIENCES LIBRARY

UNIVERSITY OF  
**Cincinnati**

HAUCK CENTER for the  
**ALBERT B. SABIN ARCHIVES**

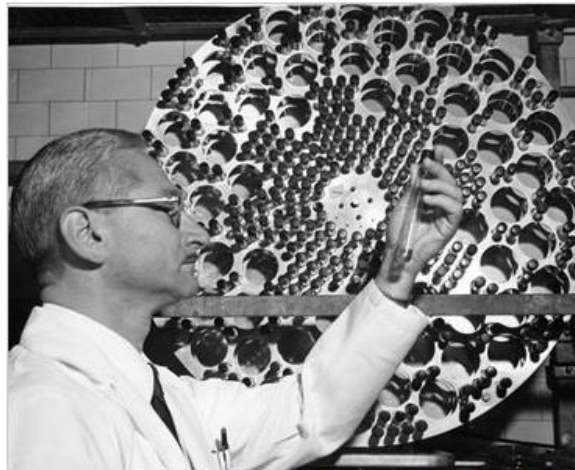
A BIOGRAPHY  
OF DR. SABIN

SABIN SUNDAYS  
AND HIS ORAL  
POLIO VACCINE

THE ARCHIVES

*search the digital collection*

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*In the Albert B. Sabin Archives Digital Collection*

Dr. Albert B. Sabin, distinguished service professor of research pediatrics at the University of Cincinnati College of Medicine and fellow of the Cincinnati Children's Hospital Research Foundation, developed the oral live-virus vaccine against poliomyelitis, which is known throughout the world as the "Sabin Vaccine." Dr. Sabin is photographed before a roller drum used for sterilizing material.

HAUCK CENTER for the  
**ALBERT B. SABIN  
ARCHIVES**

Dr. Albert Sabin, developer of the oral polio vaccine, donated his complete correspondence, laboratory materials, manuscripts, awards and medals to the University of Cincinnati. His papers document both the development and testing of the oral polio vaccine and the growth of virology as a discipline. Explore the interactive timeline of Dr. Sabin's life, career and medical research—find a rich archives of his correspondence, military service, poliomyelitis and his oral poliovirus vaccine in the Archives Digital Collection, or discover new connections in the UC Libraries Albert B. Sabin Archives Digitization Project Blog posts.

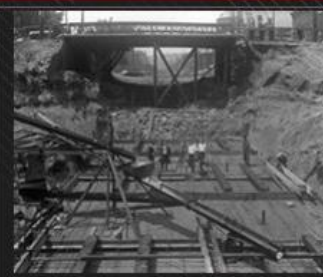


1906

Albert B. Sabin  
born in  
Bialystok,  
Russian Poland

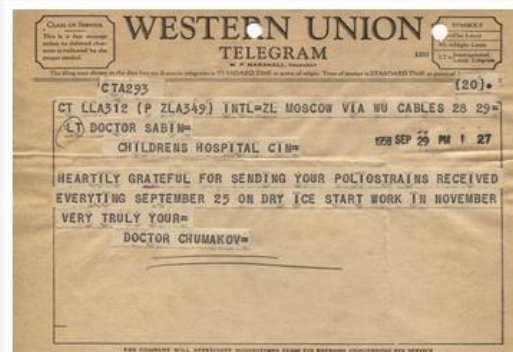






## The Albert B. Sabin Digitization Project: Polio and the Cold War

The April 2012 issue of *Scientific American* Magazine features an article about Dr. Albert B. Sabin and Dr. Mikhail P. Chumakov called "[Birth of a Cold War Vaccine](#)" by William Swanson. Mr. Swanson conducted research in the Sabin Archives for the special report on polio. Regarding the "surprising" alliance of these scientists, Mr. Swanson wrote, "Their joint venture would have outraged fanatics on both sides of the iron curtain if those fanatics had been aware of it. Yet the collaboration—fleshed out in



Telegram from Dr. Chumakov to Dr. Sabin, September 1958

## Welcome!

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- CEAS Library (13)
- CECH Library (24)
- Chem-Bio Library (3)
- DAAP Library (27)
- Daap Library News (14)
- Digital Collections (175)
- Elliston Poetry Room (20)

## The Albert B. Sabin Digitization Project: Balancing Privacy and Restrictions with Access

Stephanie L. Bricking, Henry R. Winkler Center for the History of the Health Professions, University of Cincinnati Libraries



### Abstract

Archivists must balance ethical issues of privacy and access every day. The Henry R. Winkler Center developed an approach to balance these issues, along with national security issues, during the course of the Albert B. Sabin digitization project. Because the collection contains military correspondence and medical research, staff worked with different groups to best balance access and privacy in the online collection.

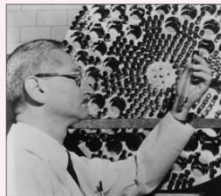
### Project Workflow

1. Identify materials for "pre-publication review."
2. Load documents and metadata into non-public D-Space repository.
3. Review materials for personal health and classified information. Edit document and metadata as needed.
4. Upload edited documents to the storage area network (SAN).
5. Rebuild submission packages.
6. Retest batch loads on non-public D-Space repository.
7. Upload reviewed documents to public D-Space repository.

### Pre-Publication Review

Approximately 1/3 of the 34,712 documents scanned for the digitization project were identified as being "high risk" to contain private health and/or previously classified information. The main series targeted for a pre-publication review were:

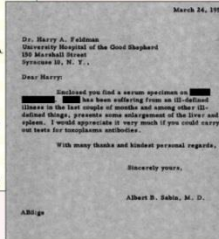
- Military Service
- Oral Poliovirus Vaccine
- Other Diseases Researched
- Poliomyelitis



### For More Information

- **Albert B. Sabin Archives:** <http://sabin.uc.edu/>
- **Sabin Project Blog:** <http://www.libraries.uc.edu/liblog/topics/albert-b-sabin-archives/>
- **Sabin Redaction Policy:** <http://digitalprojects.libraries.uc.edu/sabin/redaction/>

dc.contributor.author	Sabin, Albert B. (Albert Bruce), 1906-1993	en_US
dc.coverage temporal	1950	en_US
dc.date.accessioned	2012-10-08T09:28:10Z	en_US
dc.date.available	2012-10-08T09:28:10Z	en_US
dc.date.created	1950-05-04	en_US
dc.date.issued	1950-05-04	en_US
dc.identifier.uri	<a href="http://digitalprojects.libraries.uc.edu/sabin/redaction/">http://digitalprojects.libraries.uc.edu/sabin/redaction/</a>	en_US
dc.description	Letter from Sabin, Albert B. to Feldman, Harry A. dated 1950-05-04.	en_US
dc.description	Some personal information has been redacted from this document. See Sabin Redaction Policy.	en_US
dc.format.medium	paper	en_US
dc.format.extent	application/pdf	en_US
dc.language.iso	en_US	en_US
dc.relation.ispartof	The Albert B. Sabin Archives	en_US
dc.relation.ispartofseries	Sabin Archives: Correspondence, Telegrams, Box 10, File 10 (Feldman, Harry A. - 1950-05)	en_US
dc.rights.uri	<a href="http://digitalprojects.libraries.uc.edu/sabin/redaction/">http://digitalprojects.libraries.uc.edu/sabin/redaction/</a>	en_US
dc.subject	Feldman, Harry A. - Correspondence	en_US
dc.subject	Sabin, Albert B. (Albert Bruce), 1906-1993 - Correspondence	en_US
dc.subject.mesh	Telegrams - Digests	en_US
dc.type	Feldman, Harry A. - 1950-05 - Correspondence, Telegrams - letter, 1950-05-04	en_US
dc.type	letter	en_US
dc.type	text	en_US
dc.date digitized	2012-10-08	en_US
dc.description.notes	Declassified 2010-05-04	en_US
dc.publisher.digital	University of Cincinnati, University of Cincinnati Libraries	en_US



### Privacy

Project staff met with UC General Counsel to create a new policy to determine what identifiable information should be removed from letters to protect the privacy of those mentioned in the documents. We concentrated on:

- Medical records
- Letters seeking medical advice
- Material related to research studies

When removing identifiable information, we focused on identifiers described in the *Health Insurance Portability and Accountability Act (HIPAA)* that were most likely to appear in the collection (but not limited to):

- Names
- Geographic subdivisions smaller than state (e.g., address, city, county, and zip code)
- Telephone/Fax numbers
- Social Security numbers
- Medical record numbers
- Dates, such as birth and hospital admission dates (except year)

Depending on the content, health information may be removed to maintain the integrity of the document, but only if the amount removed maintains the privacy of the individuals mentioned.

Project staff added two metadata fields to indicate to users that information was removed:

1. The dc.description field links to the redaction policy.
2. The dc.description.notes field indicates the date the document was redacted.

### National Security

Project staff members were in contact with the *National Archives and Records Administration's Information Security Oversight Office (ISOO)* regarding classified documents in the collection. The types of documents were:

1. Restricted - These are no longer considered classified.
2. Confidential/Secret - These may still be classified. To determine status, contact the ISOO. Documents must be sent by either fax or mail (not email).

The ISOO determined that documents labeled "Confidential" or "Secret" in the digital collection are no longer classified. Project staff indicated this in the metadata of each document (the dc.description field) and with a strikethrough mark on the classification stamp.

dc.contributor.author	Begin, James, 1888-1970	en_US
dc.coverage temporal	1940	en_US
dc.date.accessioned	2012-10-08T09:28:10Z	en_US
dc.date.available	2012-10-08T09:28:10Z	en_US
dc.date.created	1940-01-10	en_US
dc.date.issued	1940-01-10	en_US
dc.identifier.uri	<a href="http://digitalprojects.libraries.uc.edu/sabin/redaction/">http://digitalprojects.libraries.uc.edu/sabin/redaction/</a>	en_US
dc.description	Letter from Begin, James, S. to Sabin, Albert B. dated 1940-01-10.	en_US
dc.description	Some personal information has been redacted from this document. See Sabin Redaction Policy.	en_US
dc.format.medium	paper	en_US
dc.format.extent	application/pdf	en_US
dc.language.iso	en_US	en_US
dc.relation.ispartof	The Albert B. Sabin Archives	en_US
dc.relation.ispartofseries	Sabin Archives: Correspondence, Military Service, Telegrams, Box 10, File 10 (Begin, James, 1888-1970)	en_US
dc.rights.uri	<a href="http://digitalprojects.libraries.uc.edu/sabin/redaction/">http://digitalprojects.libraries.uc.edu/sabin/redaction/</a>	en_US
dc.subject	Begin, James, 1888-1970 - Correspondence	en_US
dc.subject	Begin, James, 1888-1970 - Military Service	en_US
dc.subject.mesh	Telegrams - Digests	en_US
dc.type	Begin, James, 1888-1970 - 1940-01-10 - Correspondence, Telegrams - letter, 1940-01-10	en_US
dc.type	letter	en_US
dc.type	text	en_US
dc.date digitized	2012-10-08	en_US
dc.description.notes	Declassified 2010-05-04	en_US
dc.publisher.digital	University of Cincinnati, University of Cincinnati Libraries	en_US



### Results

To date, over 1500 documents have been redacted and/or declassified for publication online. This is 4.3% of the digital collection. Although this project only affected a small portion of the digitized materials, these steps were necessary to ensure the protection of privacy and national security.

In 2010, the University of Cincinnati Libraries received a three year grant from the National Endowment for the Humanities (NEH) to digitize the correspondence and photographs of Dr. Albert B. Sabin. This digitization project has been designated a NEH "We the People" project. Any views, findings, conclusions, or recommendations expressed in this poster do not necessarily reflect those of the National Endowment for the Humanities.



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## Lesson Plans

As part of our 2010 National Endowment for the Humanities grant, Sabin project staff have created lesson plans to encourage high school teachers to use the Sabin digital collection in their classrooms. Please feel free to use these materials in the classroom setting. Also, let us know what works and what could use improvement by contacting us at [chhp@uc.edu](mailto:chhp@uc.edu).



### News

Two lesson plans are now available!

Full Text Search:

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## Recent Submissions

[\(See all records\)](#)

### [Lesson Plan - Albert Sabin and Bioethics](#)

Pintz, Kathlyn (*University of Cincinnati. University of Cincinnati Libraries; University of Cincinnati; University of Cincinnati. Hauck Center for the Albert B. Sabin Archives*, 2013-04-29)



### [Lesson Plan - Albert Sabin and the Cold War](#)

Pintz, Kathlyn (*University of Cincinnati. University of Cincinnati Libraries; University of Cincinnati; University of Cincinnati. Hauck Center for the Albert B. Sabin Archives*, 2013-04-25)







## Los Angeles Evening Herald, Nov. 7, 1918






Isolation barracks for influenza patients at Camp Bowie, Texas, late 1918



# University of Michigan

Produced by the University of Michigan Center for the History of Medicine and Michigan Publishing, University of Michigan Library

## INFLUENZA ENCYCLOPEDIA

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### THE AMERICAN INFLUENZA EPIDEMIC OF 1918-1919: — A DIGITAL ENCYCLOPEDIA —

#### Welcome

*"They are placed on the cots until every bed is full and yet others crowd in. The faces soon wear a bluish cast; a distressing cough brings up the blood stained sputum. In the morning the dead bodies are stacked about the morgue like cord wood."*

—Victor Vaughan, *A Doctor's Memories*

An estimated 650,000 Americans lost their lives to the infamous and tragic 1918-1919 influenza epidemic, a small but significant fraction of the approximately 50 million deaths the disease caused worldwide. Countless more were left without parents, children, friends, and loved ones. Communities across the country did what they could to stem the rising tide of illness and death, closing their schools, churches, theaters, shops and saloons. Doctors, nurses, and volunteers gave their time – and, occasionally, their lives – to care for the ill.

These pages contain the stories of the places, the people, and the organizations that battled the American influenza epidemic of 1918-1919.

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<a href="#">Birmingham</a>	<a href="#">New Orleans</a>
<a href="#">Boston</a>	<a href="#">New York</a>
<a href="#">Buffalo</a>	<a href="#">Newark</a>
<a href="#">Cambridge</a>	<a href="#">Oakland</a>
<a href="#">Charleston</a>	<a href="#">Omaha</a>
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<a href="#">Milwaukee</a>	<a href="#">Worcester</a>

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## THE AMERICAN INFLUENZA EPIDEMIC OF 1918-1919: A DIGITAL ENCYCLOPEDIA

### SAN FRANCISCO, CALIFORNIA



### 50 U.S. CITIES and THEIR STORIES

[ESSAY](#)[EVENT TIMELINE](#)[IMAGES](#)[BROWSE ARCHIVE](#)[◀ PREVIOUS](#)[50 CITIES INDEX](#)[NEXT ▶](#)

As in every city, it is impossible to know just how the first case of influenza was contracted in San Francisco. According to contemporary newspaper reports, however, a local man who had returned to his home after a recent trip to Chicago brought the disease to San Francisco. Learning of the case on September 23, San Francisco Health Officer Dr. William C. Hassler ordered the man to the city hospital and placed his home under quarantine. The hope was that these actions might stop the spread of the disease in its tracks, sparing San Francisco from an epidemic. However, by October 9 the city had at least 169 cases of influenza. Only a week later that number had jumped to over 2,000. San Francisco's epidemic had started.<sup>1</sup>

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Open-air police court being held in Portsmouth Square, San Francisco. To prevent crowding indoors, judges held outdoor court sessions.

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## THE AMERICAN INFLUENZA EPIDEMIC OF 1918-1919: A DIGITAL ENCYCLOPEDIA

### Image Gallery

#### 50 U.S. CITIES and THEIR STORIES

#### Albany, New York



#### Atlanta, Georgia



#### Baltimore, Maryland



#### Birmingham, Alabama



#### Boston, Massachusetts



#### Buffalo, New York



#### Cambridge, Massachusetts



#### Charleston, South Carolina



# INFLUENZA

Begins with Headache  
Chilly Sensations and Fever

When uncomplicated it is not a serious disease and fever goes down in two or three days.

**If fever persists or returns it probably means a most serious PNEUMONIA.**

When first taken sick, patients must be put to bed in a room by themselves and must not get up for anything.

**Send for a doctor right away.**

We urgently advise patients to go to a hospital in the early stage.

**ROCHESTER HEALTH BUREAU**

JOSEPH ROBY, M. D., Acting Health Officer

# L'INFLUENZA

Comincia con mal di capo,  
brividi di freddo e febbre.

Quando non vi siano altre complicazioni, non e' malattia grave e la febbre cessa in due o tre giorni.

**Se la febbre seguita o ritorna, forse significa che e' grave POLMONITE.**

Appena il paziente si sente male deve essere messo a letto in una camera separata, e non deve assolutamente alzarsi per qualsiasi motivo.

**Si chiami subito un Dottore.**

Noi urgentemente suggeriamo ai MALATI di andare all'ospedale appena si sentono male.

**ROCHESTER HEALTH BUREAU**

JOSEPH ROBY, M. D., Acting Health Officer

# אינפלוענצא

פאנגט זיך אן מיט א קאפזוועהטאג.

קאלטע פיהלונג און פיבער

אויב עס קומט נישט אריין אין א געפערליכע קראנקהייט  
און פיבער, דאן געהט דאס איבער אין צוויי אדער  
דריי טעג.

**אויב פיבער האלט אן אדער עס קומט אריין  
אין א מער ערנסט לונגען-ענטזינדונג.**

ווי מען ווערט קראנק, דער קראנקער זאל זיך אוועקלייג  
נען אין בעט אין א צימער ווי ער אדער זי א זאל אריין  
לעגען אין צימער, און ריענען רוהן.

**שיקט גלייך נאך א דאקטאר.**

מיר רעקאמענדירען א קראנקע צו געהן אין א האספיעאל בעציי  
טענס, ער זאל נישט פערנאכלעסנען די קראנקהייט.

ראטשעסמער העלפס ביורא

דזשאזעף ראבי, מ. ד., עקסעינג העלפס אפיסער.





# College of Physicians of Philadelphia

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From Samuel E. Whitnall's *The anatomy of the human orbit and accessory organs of vision* (1921). As always, for more from the Medical Heritage Library, please visit our full collection!

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Check out this 1933 film on lifesaving from #MHL partner @WellcomeLibrary <http://t.co/hZoPB92e4Y> about 7 hours ago  
Disability and Change symposium @ Temple University: <http://t.co/pRwg7yokRR> #histdisability 01:02:11 PM March 04, 2014  
RT @bschillace: Are you following @DittrickMuseum blog? #Forensics! Bodle and LaFarge: Sensational Arsenic

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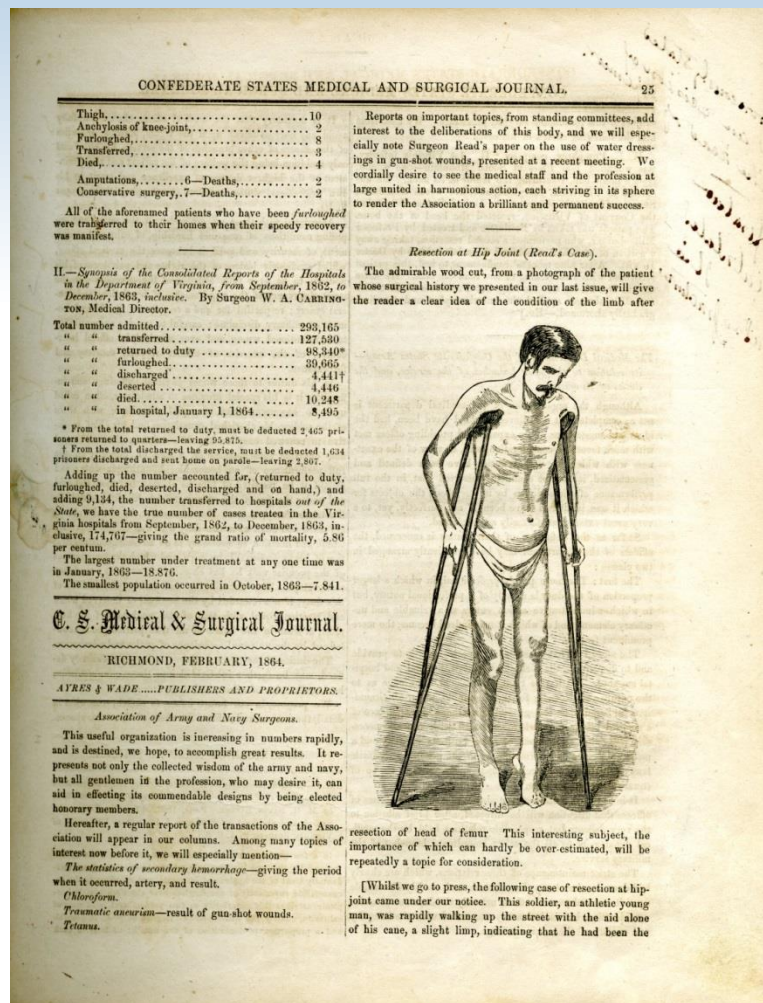
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# Medical Heritage Library - Core Partners

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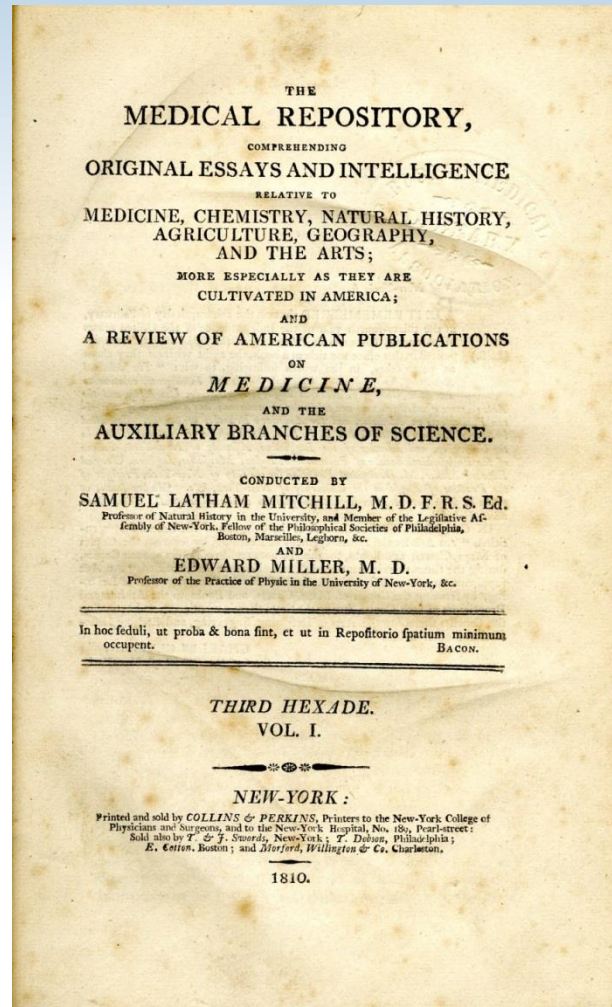
- College of Physicians of Philadelphia (lead)
- Francis A. Countway Library of Medicine at Harvard Medical School
- Harvey Cushing/John Hay Whitney Medical Library at Yale University
- Augustus C. Long Health Sciences Library at Columbia University
- Alan Mason Chesney Medical Archives at John Hopkins University
- New York Public Library
- National Library of Medicine
- Wellcome Library (United Kingdom)

# Medical Heritage Library





# Medical Heritage Library



# Medical Heritage Library



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## Digital Highlight: Our 50,000th Item "The Doctor's Advice"

by Hanna Clutterbuck February 4, 2014



Illustration of a child from "The Doctor's Advice."

The Medical Heritage Library recently passed a milestone: we uploaded our 50,000th item, the wonderfully titled *The doctor's advice : or how, when, and what to eat and drink, how to secure good health and long life, how to prevent and treat disease, what mothers and nurses ought to know : how to care for the baby, and give to our boys and girls the best moral, mental, and physical culture, when and whom to marry, how to choose a wife or husband, and how to be happy* from 1898.

The reader might think that any one of the topics mentioned above might be more than enough for a book, but Dr. Alvarado Middleditch thought they were best treated as a single, all-encompassing subject. His philosophy is more or less summed up in his opening sentence: "The home is the Church and State in embryo." (iii) Going further, the reader finds that Dr. Middleditch proposes to cover not only physical wellbeing but education, plans for business, how to get along as a merchant, alcoholism, the care of the pregnant mother, what personal qualifications are best for a maternity nurse, and what amusements are most likely to suit and improve children.

Dr. Middleditch's work sits squarely in the family advice manual tradition, offering up suggestions and philosophy on a wide range of subjects. Clearly Dr. Middleditch envisioned his book being the kind of thing that might be gifted

to young married couples and then handed down to their children, having enlightened the original couple throughout their productive married life.

### Latest Tweets

Check out this 1933 film on lifesaving from #MHL partner @WellcomeLibrary <http://t.co/hZoPB92e4Y> 09:51:46 AM March 05, 2014

Disability and Change symposium @ Temple University: <http://t.co/pRwg7yokRR> #histdisability 01:02:11 PM March 04, 2014

RT @bschillace: Are you following @DittrickMuseum blog? #Forensics! Bodle and LaFarge: Sensational Arsenic Cases <http://t.co/qBdfJ3rCNW> Sub... 10:14:02 AM March 04, 2014

Spam comment of the morning: "I resolve all dissonant chords to consonance." Bully for you. 10:08:10 AM March 04, 2014

New from #MHL partner @HistModBioMed: Clinical Molecular Genetics in the UK <http://ow.ly/udBDF> 09:31:39 AM March 04, 2014

[Follow @MedicalHeritage](#) 957 followers

### MHL Tags

AAHM [about](#) [advice](#) Alan Mason





## THE MEDICAL HERITAGE LIBRARY

**The Medical Heritage Library** is a content centered digital community supporting research, education, and dialog that enables the history of medicine to contribute to a deeper understanding of human health and society.

MHL serves as the point of access to a valuable body of quality curated digital materials and to the broader digital and non-digital holdings of its members. Through active community building and coordinated content selection, the MHL facilitates much needed discourse around the contemporary practice of medicine and human health.

[www.medicalheritage.org](http://www.medicalheritage.org)

 Follow us on Facebook

 Follow us on Twitter @MedicalHeritage

**Barthelemy, Syphilis: Poème en Quatre Chants.**  
Paris: Martidon [1851]. From Harvard Medical Library  
in the Francis A. Countway Library of Medicine.



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# SHARED HORIZONS: DATA, BIOMEDICINE, AND THE DIGITAL HUMANITIES



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**Humanities**



U.S. DEPARTMENT OF HEALTH  
& HUMAN SERVICES



RESEARCH  
COUNCILS UK  
UNITED STATES



MARYLAND INSTITUTE FOR  
TECHNOLOGY IN THE HUMANITIES

Exploring the human endeavor



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# Natural History in Humanities Collections and Reference Resources

- American Museum of Natural History: Foundations of Darwin's Science: A Digital Manuscripts Collection
- University of Nebraska, Lincoln : The Livingstone Online Enrichment and Access Project (LEAP)
- American Philosophical Society: Cataloging and Contextualizing the World's Largest Known Collection of Printed Works by Charles Darwin





# Natural History in Humanities Collections and Reference Resources

- Missouri Botanical Garden: Creating Digital Access to Natural History Illustrations
- New York Botanical Garden: Cataloging and Digitizing the LuEsther T. Mertz Library's Nursery and Trade Catalog Collection
- Chicago Botanic Garden: Conserving and Creating Digital Access to Rare Botanical Volumes Dating from the 16th to the 20th Century
- University of Kansas, Lawrence: Exploring the History of 19th-Century Ornithology and Scientific Illustration through the Works of John Gould



# Preservation and Access Support of Natural History

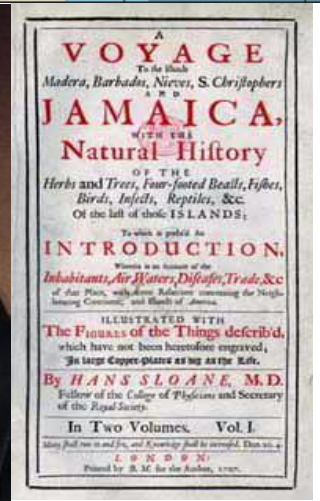
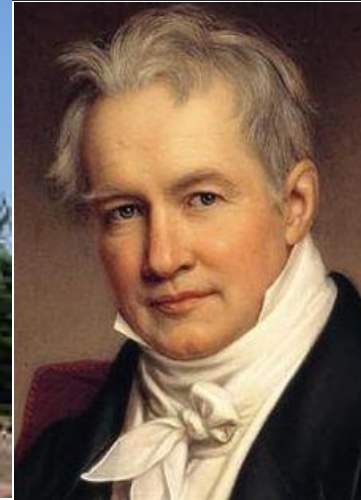
*Nomina si pereunt, perit et cognitio rerum*

(If the names perish, so also would our knowledge of things.)

Carolus Linnæus, foreword to  
*Journey in Västergötland, 1747*



# Enlightenment Voyages





# Taxonomic Impediment

- Millions of species undescribed
- Shortage of taxonomic information
- Gaps in taxonomic knowledge
- Shortage of trained taxonomists
- Lack of access to biodiversity literature



A famous photograph shows Roxy Laybourne and the National Museum of Natural History's vast collection of birds. (Photo by Chip Clark)

# Chicago Botanic Garden

*Conserving and Creating Digital Access to Rare Botanical Volumes Dating from the 16<sup>th</sup> to the 20<sup>th</sup> Century*  
(2011 HCRR award)

- Collection acquired from the Massachusetts Horticultural Society in 2002
- Conservation and digitization of 45 rare volumes



PW-50915-11

## A detailed botanical illustration of a branch with several large, lobed leaves in various shades of red, orange, and yellow, set against a plain background. The leaves are arranged along a thin, dark stem, showing a range of autumnal colors from deep red to bright yellow. The leaves have prominent veins and serrated edges. The illustration is centered on a light-colored, textured background.



FROM AN

DESCRIBING

AND CONVEYING

OF THE

852

By J. HECTOR ST. JOHN,  
A FARMER IN PENNSYLVANIA.

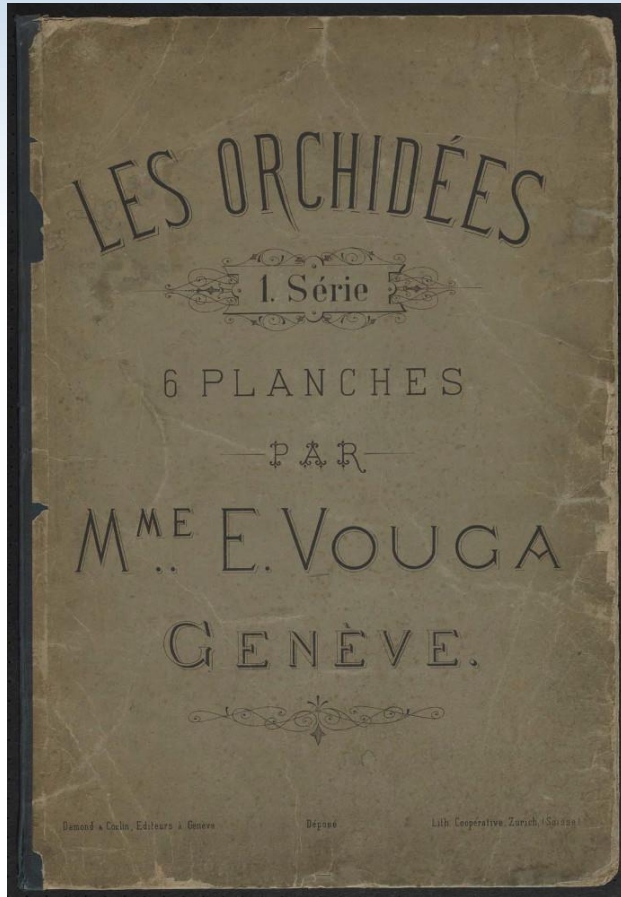
L O N D O N,

PRINTED FOR THOMAS DAVIES IN RUSSEL STREET COVENT-  
GARDEN, AND LOCKYER BAYLY IN BILBOURN.  
M DCC LXXXII.

M DCC LXXXII.

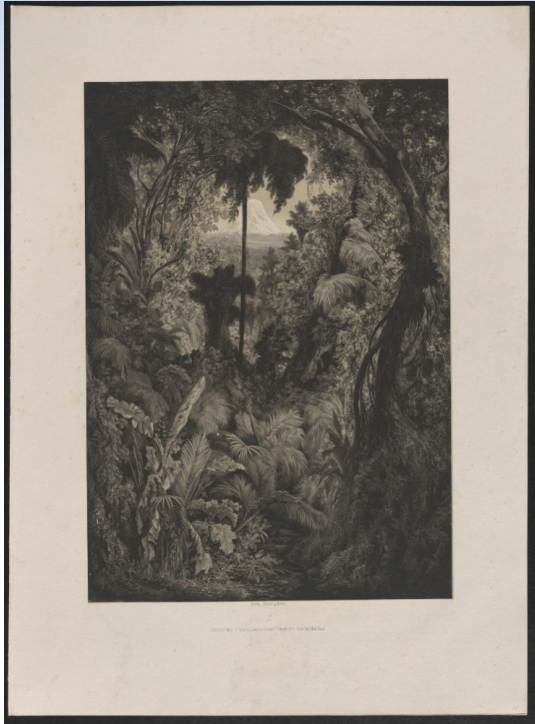


# Chicago Botanic Garden



Chromolithograph  
of the *Vanda*  
*tricolors* (var.  
*suavis*) orchid,  
native to Java,  
from Mme Emilie  
Vouga, *Les*  
*orchidées*  
(Geneva, n.d.)

# Chicago Botanic Garden



Albert Berg (1825-1884)  
*Physiognomy of Tropical  
Vegetation in South  
America: a series of  
views illustrating the  
primeval forests on the  
river Magdalena  
[Columbia], and in the  
Andes of New Granada  
(London, 1854)*

# Reaching its Audience

- Garden open 365 days/year
- School and research visits
- Library exhibitions & talks
- Exhibit on Female Botanical artists
- Exhibit on Emily Dickinson's Garden
- Newsletter reaches 62,000 viewers
- Stories from the Rare Book Collection
- Lenhardt Library online catalog
- Images at Illinois Digital Library





# Missouri Botanical Garden

## *The Art of Life: Creating Digital Access to Natural History Illustrations (2012 HCRR award)*

- Development of tool to search on natural history Illustrations
- Use of Biodiversity Heritage Library as test-bed
- Engage community to assist in tagging



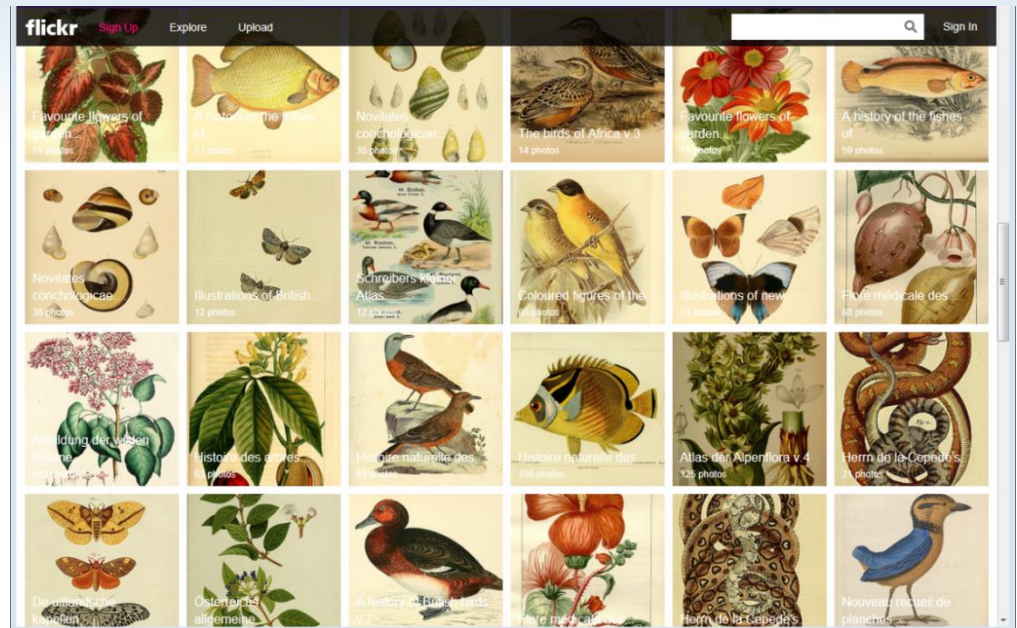
PW-51041-12

# Biodiversity Heritage Library

Consortium of natural history and botanical libraries

Cooperate to digitize and make accessible the legacy literature of biodiversity held in their collections

Make literature available for open access and responsible use as a part of a global “biodiversity commons”



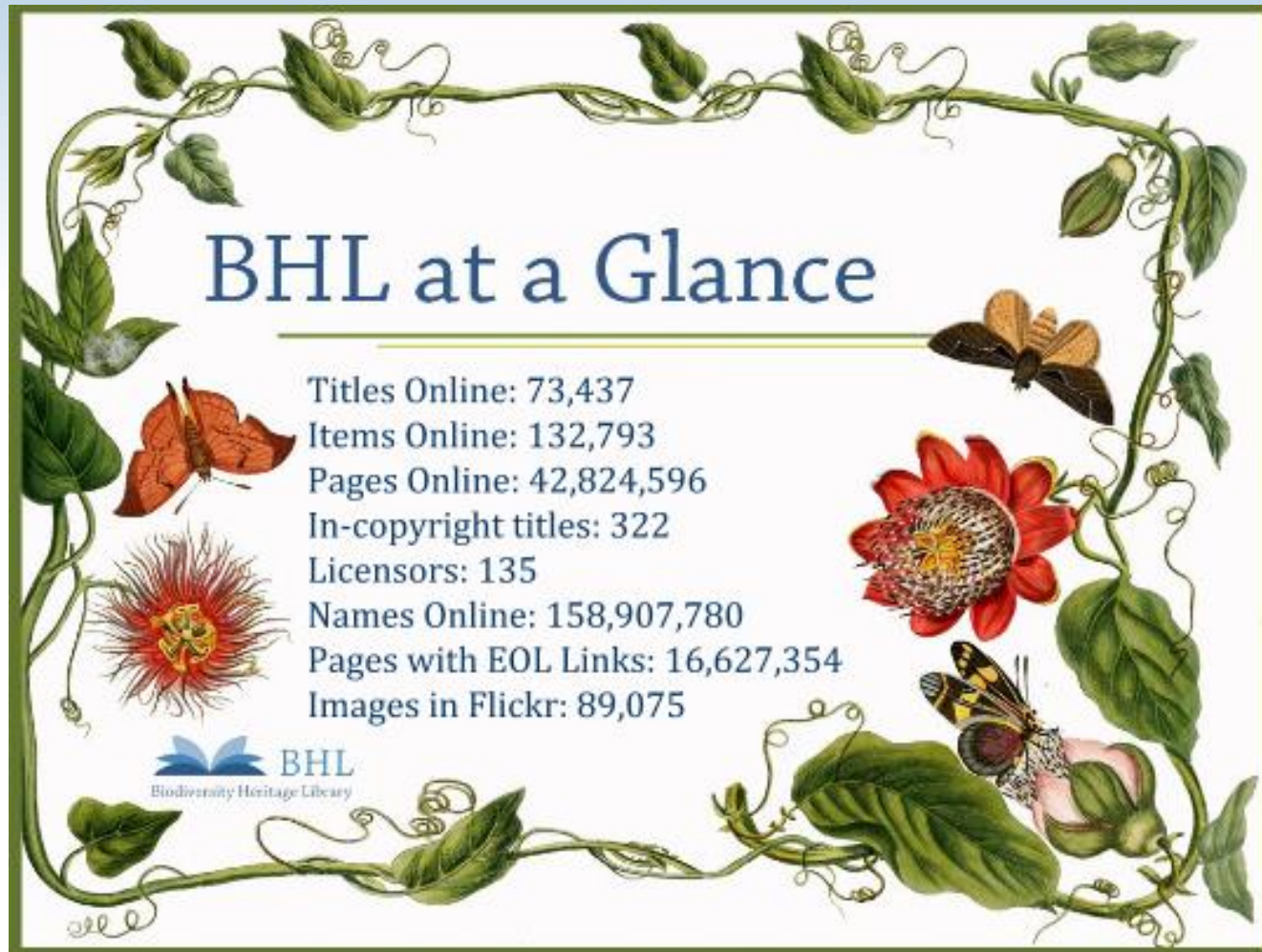
# Member Institutions

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- Academy of Natural Sciences (Philadelphia, PA)
- American Museum of Natural History (New York, NY)
- California Academy of Sciences (San Francisco, CA)
- Cornell University Library (Ithaca, NY)
- The Field Museum (Chicago, IL)
- Harvard University Botany Libraries (Cambridge, MA)
- Harvard University, Ernst Mayr Library of the Museum of Comparative Zoology (Cambridge, MA)
- Library of Congress (Washington, DC)
- Marine Biological Laboratory / Woods Hole Oceanographic Institution (Woods Hole, MA)
- Missouri Botanical Garden (St. Louis, MO)
- Natural History Museum (London, UK)
- Natural History Museum, Los Angeles County
- The New York Botanical Garden (New York, NY)
- Royal Botanic Gardens Kew, Library (Richmond, UK)
- Smithsonian Libraries (Washington, DC)
- United States Geological Survey (Reston, VA)




# Biodiversity Heritage Library



**BHL at a Glance**

- Titles Online: 73,437
- Items Online: 132,793
- Pages Online: 42,824,596
- In-copyright titles: 322
- Licensors: 135
- Names Online: 158,907,780
- Pages with EOL Links: 16,627,354
- Images in Flickr: 89,075

 **BHL**  
Biodiversity Heritage Library

The graphic is framed by a decorative border of green vines with leaves and small flowers. Several butterflies are illustrated within the frame: an orange and black one on the left, a brown and orange one on the right, and a black and white one at the bottom right. There are also two large, detailed flowers, one red and one pink, integrated into the design.

# BRITISH BUTTERFLIES

FIGURES AND DESCRIPTIONS OF  
EVERY NATIVE SPECIES

WITH AN ACCOUNT OF  
BUTTERFLY DEVELOPMENT, STRUCTURE, HABITS, LOCALITIES,  
MODE OF CAPTURE, AND PRESERVATION

By W. S. COLEMAN

AUTHOR OF "OUR WOODLANDS, HEATHS, AND HEDGES"

WITH ILLUSTRATIONS  
PRINTED IN COLOURS BY EDMUND EVANS

LONDON  
GEORGE ROUTLEDGE AND SONS  
BROADWAY, LUDGATE HILL  
GLASGOW, MANCHESTER, AND NEW YORK

1860



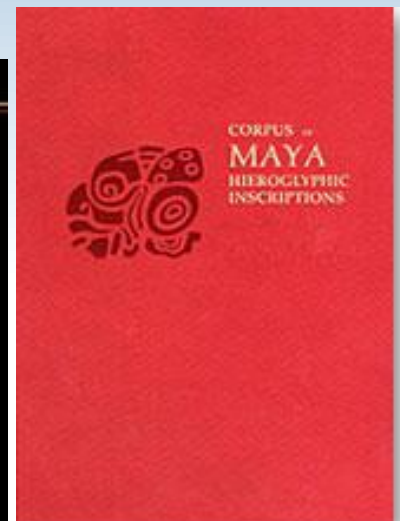
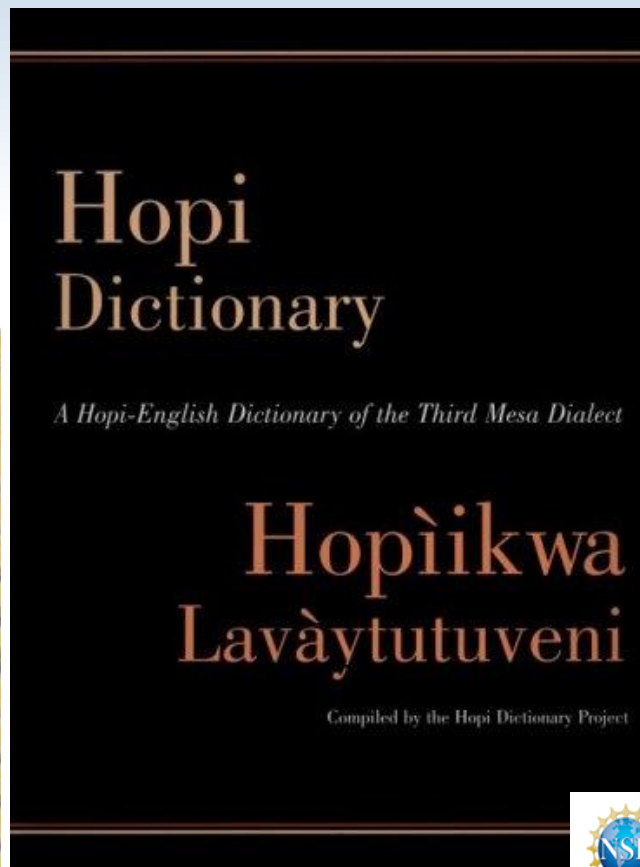
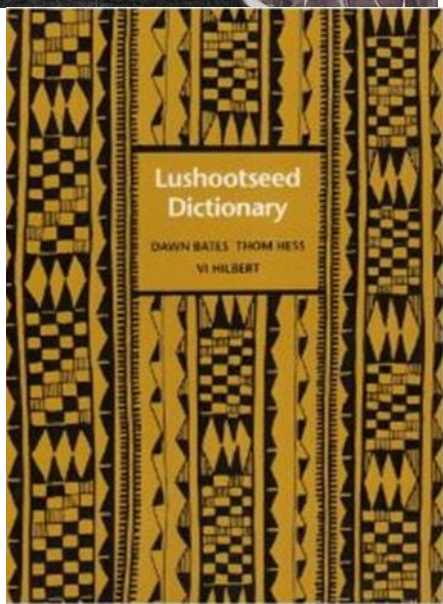
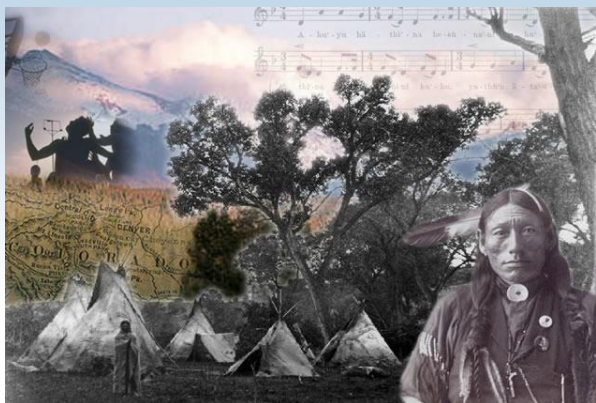
# Serving its Audience

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- Biologists, historians of science, art historians, curators, and other scholars and educators rely on visual resources of the natural world
- When complete, a wealth of illustrations of plant and animal life from which to make connections between science, art, history, and culture will be available



# Documenting Endangered Languages



Exploring the human endeavor



National Science Foundation  
WHERE DISCOVERIES BEGIN



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Humanities

# What is lost?

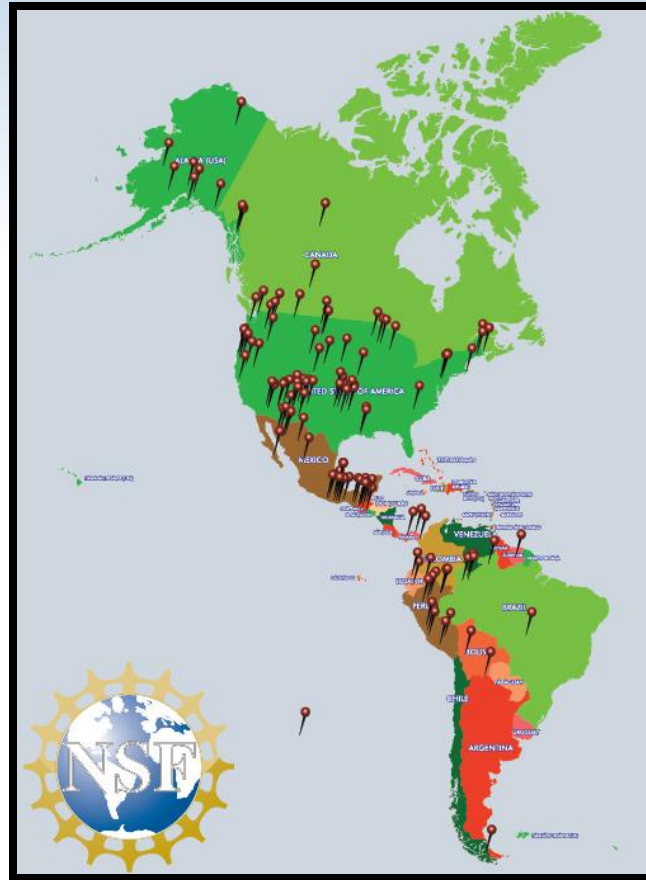
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- Language Diversity
- Cultural Knowledge
- Knowledge about Natural Systems
- Community Identity

In forming DEL, the two agencies acknowledged that endangered languages represent a vast repository of human knowledge about the natural world and cultural traditions.

# DEL Projects in the Americas

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Exploring the human endeavor

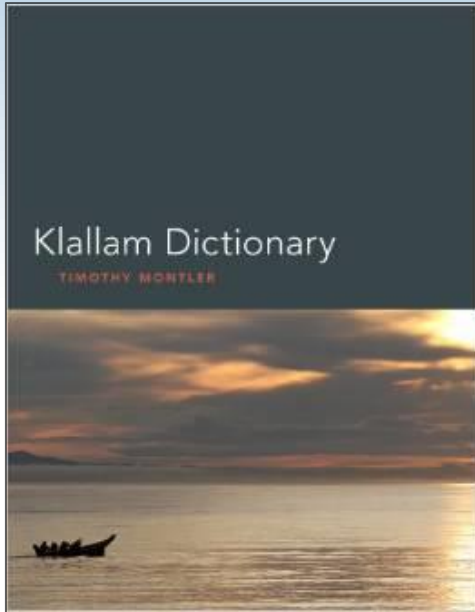


# Strategies

- Documentation
- Revitalization



# Klallam Dictionary and Electronic Archive



- Very few remaining first language speakers
- Interest among second language speakers
- Poorly documented
- Community requested documentation
- Results: Database, online dictionary, digital audio and video recordings, texts, reformatting of previously recorded video and language study tools



PD-50006-07

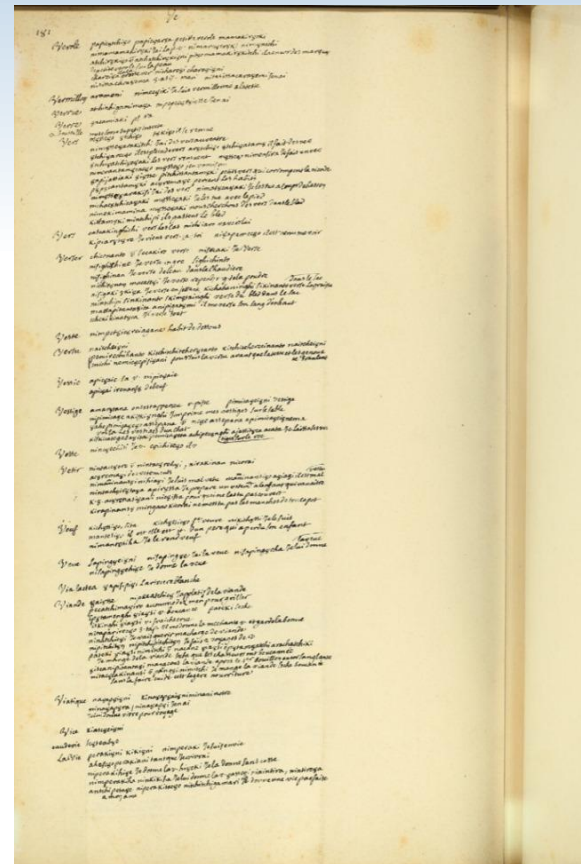


# Miami-Illinois Dictionary Project



PD-50017-12

*Oonseentia*, 2007, was created by Gerald Clarke (Cahuilla), a 2007 Eiteljorg Contemporary Art Fellow, who created similar artwork for the Cahuilla reservation using the Cahuilla language. The work commissioned by the Eiteljorg for the Fellowship, was done by Clarke in collaboration with Scott Shoemaker (Miami, Oklahoma). Clarke initiated the collaboration as a respectful gesture toward the Miami, the people indigenous to this area. This sign is part of a set of three on the museum property; *Myaamionki* (Place of the Miami), *Seekahkwiaanki* (We Held Onto the Tree Limbs), and *Oonseentia* (Yellow Poplar Tree). Image courtesy of the Eiteljorg Museum of the American Indians and Western Art, Indianapolis



Exploring the human endeavor



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Humanities



# Miami-Illinois Dictionary Project



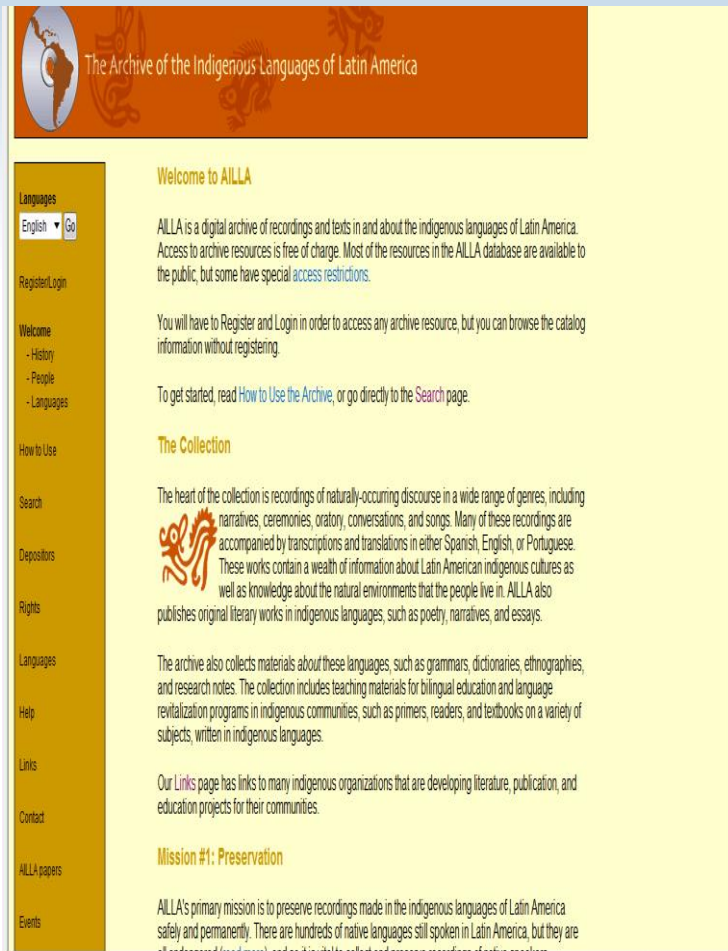
Exploring the human endeavor

# Archive of the Indigenous Languages of Latin America (AILLA)

University of Texas, Austin

AILLA is a digital archive of recordings and texts in and about the indigenous languages of Latin America. Access to archive resources is free of charge.

<http://www.ailla.utexas.org/>



The screenshot shows the AILLA website interface. At the top, there is a header with a logo of a globe and the text "The Archive of the Indigenous Languages of Latin America". Below the header, there is a sidebar on the left with a "Languages" dropdown menu set to "English" and a "Go" button. The sidebar also contains links for "Register/Login", "Welcome" (with sub-links for History, People, and Languages), "How to Use", "Search", "Depositors", "Rights", "Languages", "Help", "Links", "Contact", "AILLA papers", and "Events". The main content area on the right has a "Welcome to AILLA" section, followed by a paragraph about the archive's mission and access. Below this is a "The Collection" section with a decorative graphic and text about the types of materials in the archive. Further down is a "Mission #1: Preservation" section with text about the archive's primary mission.



# Archive of the Indigenous Languages of Latin America (AILLA)



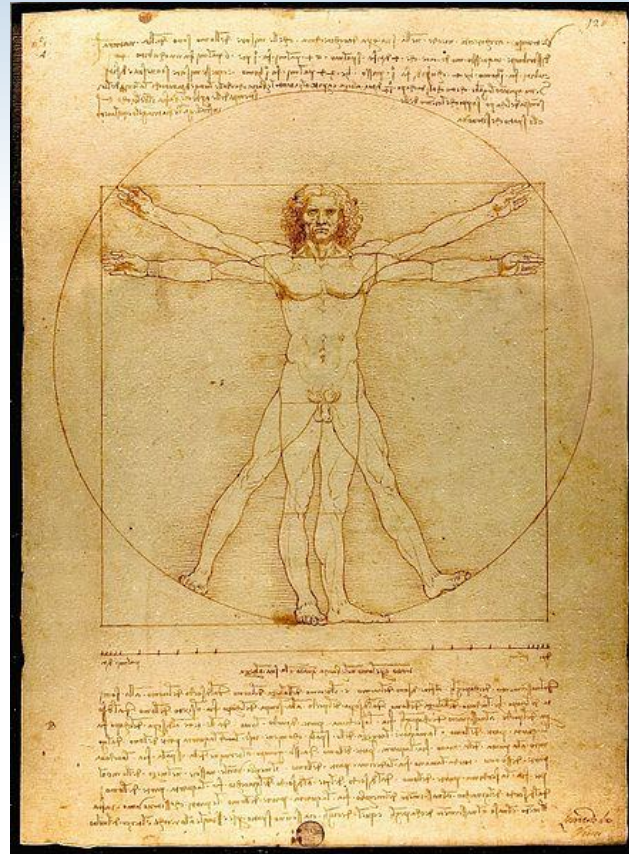
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PD-50011-09





# Reconnecting the Humanities and the Sciences



Exploring the human endeavor



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**Humanities**

# Reconnecting the Humanities and Sciences through Preservation and Access Images, courtesy of:

Archive of Indigenous Languages of Latin America  
American Museum of Natural History: Darwin Manuscripts project  
British Museum  
Biodiversity Heritage Library  
Chicago Botanic Garden  
John Carter Brown Library, Brown University  
Missouri Botanical Garden  
National Science Foundation  
Smithsonian Institution  
University of Kansas, Lawrence, John Gould Collection  
The Medical Heritage Library  
University of Michigan

Images from the Voynich Manuscript are available in Wikimedia Commons, courtesy of the Beinecke Rare Book & Manuscript Library, Yale University

**Slide 34:** A famous photograph shows Roxy Laybourne and the National Museum of Natural History's vast collection of birds. (Photo by Chip Clark)

**Slide 49:** Clockwise from top:

1) Ouma Katrina Esau, a N|u speaker, speaks into a head-mounted microphone. Linguist Johanna Brugman of Cornell University (at right) monitors the video feed on an Ultrasound laptop while adjusting the probe to get a better image of Ouma Katrina Esau's tongue. Translator Willem Damarah looks on. Ouma Hanna Koper sits quietly at the end of the couch.

Credit: *Bonny Sands, Northern Arizona University*

**Slide 49 (cont.):** 2) Dr. Maria Luz Garcia, anthropologist at Eastern Michigan University, and the Ixhil Mayan women are members of the Grupo de Mujeres por la Paz who live and work in Nebaj, El Quiché, Guatemala.

3) K. David Harrison with V. M. Gabov, photo by Greg Anderson

4) Peter Austin with a consultant, photo by Greg Anderson

**Slide 50:** Timothy Montler, University of North Texas

**Slide 51:** *Ooneseentia*, 2007, was created by Gerald Clarke (Cahuilla), a 2007 Eiteljorg Contemporary Art Fellow, who created similar artwork for the Cahuilla reservation using the Cahuilla language. The work commissioned by the Eiteljorg for the Fellowship, was done by Clarke in collaboration with Scott Shoemaker (Miami, Oklahoma). Clarke initiated the collaboration as a respectful gesture toward the Miami, the people indigenous to this area. This sign is part of a set of three on the museum property; *Myaamionki* (Place of the Miami), *Seekaahkwiaanki* (We Held Onto the Tree Limbs), and *Ooneseentia* (Yellow Poplar Tree). Image courtesy of the Eiteljorg Museum of the American Indians and Western Art, Indianapolis

Page from the Le Boulenger manuscript, courtesy of the John Carter Brown Library at Brown University.

**Slide 52:** Daryl Baldwin teaches Myaamia language to young students at a tribal educational program. The Myaamia Center worked with Dr. Troy's students in Miami University's CSE department to develop an iPhone app to help Myaamia language learners. Andrew J. Strack, Photos courtesy Myaamia Center Archive